POLARSTART

MANUAL TRANSMISSION REMOTE STARTER

PS-3185SH

User Guide

WARNING!

Manual transmission vehicles equipped with a remote starter unit must **always** be parked with the gear lever in the **NEUTRAL** position and the emergency brakes must **always** be applied.

INDUSTRY CANADA USER NOTICE:

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (EIRP) is not more than that required for successful communication.

FCC USER NOTICE (U.S.A.):

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

DOC:.1.00 – October 5, 2004 CA Lp Manufactured in Canada

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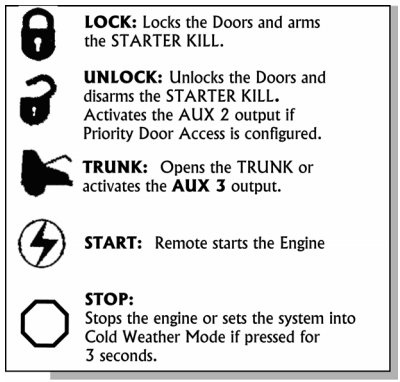
Introduction

This is a state-of-the-art remote car starter system. The system is packed with advanced features such as priority access to the driver's door (commodity features) and the Safe Start children safety feature. The unit is available with a super-heterodyne transmitter for an operating range of up to 2000 feet / 600 m. With many an advanced function, this product will satisfy any one your expectations from high-end commodity and security systems, without neglecting any standard feature commonly offered by entry-level starters.

Using the Remote Control

Your Remote Car Starter is equipped with a 5-button multi-channel remote control. It can operate two independent vehicles equipped with a Remote Car Starter (see Multi-Car Operation section, later in this Guide, for second-car transmitter functions). The functions of the transmitter are as follows:


LOCK: Locks the Doors and arms the STARTER KILL.
UNLOCK: Unlocks the Doors and disarms the STARTER KILL. Activates the AUX 2 output if Priority Door Access is configured.
TRUNK: Opens the TRUNK or activates the **AUX 3** output.
START: Remote starts the Engine
STOP:
Stops the engine or sets the system into Cold Weather Mode if pressed for 3 seconds.

Pressing the LOCK and UNLOCK buttons simultaneously will activate the AUX 2 output.

Remote-Starting Your Vehicle

Setting Your Vehicle into Ready Mode

This product is designed for vehicles with a manual transmission only. In order to start the vehicle by remote, the unit must first be set to Ready Mode. If the unit is not set to Ready Mode, it cannot remote-start the vehicle. Once the system is set to Ready Mode, the vehicle can be remote-started and stopped at wish. The system will exit Ready Mode if a door or the hood is opened, if the brake pedal is pressed, if the parking brake is disengaged or if the ignition key is turned to the IGNITION ON (RUN) position.

To set the system to Ready Mode:

1. Ensure that all the doors are closed and that the shifter is in the neutral position.
2. With the engine already running, apply the parking brake and release the brake pedal. Make sure to release the brake pedal.
3. Within 20 sec. press LOCK, UNLOCK or START on the transmitter. The parking lights will flash 3 times quickly and remain lit.
4. Remove the key: the engine will go on running.
5. Exit the vehicle and close the door.
6. Press and hold either:
   a. LOCK to lock the doors and shut down the engine;
   b. UNLOCK to unlock the doors and shut down the engine;
   c. STOP to shut down the engine without affecting the doors.

Remaining In Ready Mode

Once the vehicle is in Ready Mode you can start and stop the vehicle at wish. However, should any of the following occur, the vehicle will exit Ready Mode – thus eliminating the remote start option until Ready Mode is restored:

- Door opened;
- Hood opened;
- Brake pedal pressed;
- Parking brake disengaged;
- Ignition key turned to the IGNITION ON (RUN) position.

Should any of the above occur, Ready Mode will be cancelled.

Note: The unit will notify the user that it has exited Ready Mode by giving 3 slow flashes (parking lights).

Remote-starting

Press the START button for approx. 1 second. The parking lights will come ON to inform you that the Remote Car Starter has received your signal. Approximately 5 seconds later, the engine will start. The parking lights will remain ON during the pre-programmed run time of the engine. If the vehicle does not start at the first attempt, the system will shut down, wait a few seconds and try to start the engine again. There will be 3 start attempts before the system gives up.

Vehicle Presets

Heater & Heated Seat

When leaving the vehicle it is recommended to preset the accessory controls in preparation for the next remote start. Settings for the blower motor (fan), front and rear, as well as heated seats (if equipped) should not be left on HIGH. It is recommended to leave the settings on LOW or MEDIUM instead.

Windshield Wipers & Radio & Headlights

Certain vehicles require the radio and / or windshield wiper and / or headlight circuits to become energized while running under remote start. When leaving the vehicle you must ensure that the windshield wiper and headlight switches are OFF. Leaving the headlight switch ON on certain types

of vehicles could cause them to remain ON even after remote starter shut down, resulting in a dead battery.

Driving Off

With the vehicle running under remote control, press the UNLOCK button to disarm and unlock the doors. Enter the vehicle and do the following:

- Turn the ignition key to the IGNITION ON (RUN) position. (Do not turn the key to the CRANK position while the engine is running. This would cause the starter motor to re-engage.)
- Press the brake pedal to disengage the remote starter unit.

You are now ready to drive off.

Using the Remote Car Starter

Arming the Starter Kill

The Starter Kill (if installed) can be configured by the installer so as to arm automatically (Passive Mode) or not to arm automatically (Active Mode). See section Passive or active arming, later in this guide, for more details on Passive Mode and Active Mode.

- To disarm the Starter Kill, press the UNLOCK button on the transmitter.
  The parking lights will flash twice.
  If remote door locks are installed, this will also unlock the doors.
- To arm the Starter Kill, press the LOCK button on the transmitter.
  The parking lights will flash once.
  If remote door locks are installed, this will also lock the doors.
- In Passive Mode, the Starter Kill will automatically arm if the ignition key is not inserted Into the ignition switch within 1 or 3 minutes after unlocking (the key sense feature must be installed).

Idle Mode

Convenience feature: Idle Mode allows you to keep the engine running and the doors locked while you stop, for example, at a convenience store or for a short delivery.

This feature allows you to let the remote starter take over control of the vehicle (i.e. no Key in the Ignition Switch) while the engine is running. For example, if you stop for a delivery or at a convenience store, lock your vehicle and leave it running for the length of a run cycle while you are away. Idle Mode can be activated through the same routine as that used for Ready Mode; at the last step, the TRUNK button is pressed instead of the other buttons:

1. Ensure that all the Doors are closed and that the Shifter is in the Neutral position.
2. With the Engine already running, apply the Parking Brake and release the Brake Pedal. Make sure to release the brake pedal.
3. Within 20 sec. push LOCK, UNLOCK or START on the Transmitter.
   The parking lights will flash 3 times quickly and remain lit.
4. Remove the key: the Engine will go on running.
5. Exit the vehicle and close the Door.
6. Press the TRUNK button until the system is armed (the doors will be locked if remote door lock is installed).

If the pre-programmed run-time expires or if the user shuts down the engine by remote control, the vehicle will get in Ready Mode.

Caution!!! Do not leave children or pets unattended in a vehicle standing in Idle Mode.

Turbo Mode

If Turbo Mode is configured at installation, it will allow a turbocharger to idle down after the user leaves the vehicle: the unit will take over the vehicle and keep it running for 60 seconds (or until it is shut down by remote control), then shut down the engine and set the Remote Car Starter to Ready Mode.

To activate Turbo Mode, follow all steps of the Ready Mode routine :

1. Ensure that all the doors are closed and that the shifter is in the neutral position.
2. With the engine already running, apply the parking brake and release the brake pedal. Make sure to release the brake pedal.
3. Within 20 sec. press LOCK, UNLOCK or START on the transmitter. The parking lights will flash 3 times quickly and remain lit.
4. Remove the key: the engine will go on running.
5. Exit the vehicle and close the door.
6. Press and hold either:
   a. LOCK to lock the doors and shut down the engine after 60 sec.;
   b. UNLOCK to unlock the doors and shut down the engine after 60 sec.;
   c. STOP to shut down the engine immediately, without affecting the doors (this will by-pass Turbo Mode).

Valet Mode Using the Valet Switch

When your vehicle is in Valet Mode, the remote starter functionalities are disabled. If the vehicle needs to be serviced, or if you park it indoors, the Valet Mode will prevent the engine from being remote-started accidentally.

To put the system into Valet Mode:

- Turn the ignition key to the IGNITION ON (RUN) position.
- Within 3 sec., press the valet button (the L.E.D. will come ON solid).

To take the system out of Valet Mode:

- Turn the ignition key to the IGNITION ON (RUN) position.
- Within 3 sec., press and release the valet button (the L.E.D. will come OUT).

Note: Once Valet Mode is activated, the remote starter and alarm functions will be disabled.

Ignition Valet

This feature will allow you to remotely put your system into Valet Mode by using the ignition key instead of the Valet button as above. Ignition Valet can be used without a Valet button installed.

To put the system into Valet Mode:

- Insert the ignition key into the ignition switch. Within 10 sec., turn the key 5 times successively into the IGNITION ON / RUN and OFF positions.
- The parking lights will flash three times to indicate that the vehicle is now in Valet Mode. The L.E.D. will come ON solid.

To take the system out of Valet Mode:

- Insert the ignition key into the ignition switch. Within 10 sec., turn the key 5 times successively into the IGNITION ON / RUN and OFF positions.
- The parking lights will flash twice to indicate that the vehicle is now in Valet Mode. The L.E.D. will go out.

Note: With the Remote Valet activated, the remote starter and alarm functions will be disabled.

Remote Valet Mode

This feature will allow you to remotely put your system into Valet Mode by using the transmitter instead of the Valet button as above.

Getting into Valet Mode

- Hold the UNLOCK and START/STOP buttons simultaneously for 3 second.
- The Parking Lights will flash 3 times.

The LED will remain on solid.

Getting out of Valet Mode

- Hold the UNLOCK and START/STOP buttons simultaneously for 3 second.
- The Parking Lights will flash 2 times.

The LED will turn off.

"Home Valet™" Mode

If configured at installation, this feature will remotely set the vehicle to a no-remote-start mode: if the vehicle is parked indoors there is no danger of it starting accidentally by remote control.

> Note: Once the Home Valet Mode is activated, the vehicle will not start by remote.

To take the system into Home Valet Mode:

- Press the LOCK or UNLOCK button.
- Within 3 seconds, press the STOP button until the Parking Lights go out

To take the system out of Home Valet Mode:

- Turn the ignition key to the IGNITION ON (RUN) position.

The system will warn you if someone attempts to start your vehicle while it stands in Home Valet Mode. The parking lights will:

- Go ON then OFF; then
- Flash twice, pause; then
- Flash twice again.

Panic Mode

> Note: Panic Mode can only be activated if the horn has been adequately configured by your installer.

In an emergency situation, you can activate Panic Mode using the LOCK or UNLOCK button. This will:

- shut down the engine,
- unlock the doors (with the UNLOCK button)
- or lock the doors (with the LOCK button),
- disarm the Starter Kill and
- activate the horn for 30 sec.

> Note: See the description of the Starter Kill option later in this Guide.

To activate Panic Mode:

- Press and hold the UNLOCK button for approximately 3 sec. until the sound signal starts and the parking lights flash: this will unlock the doors before the sound signal starts.
- Or press and hold the LOCK button for approximately 3 seconds until the sound signal starts and the parking lights flash: this will lock the doors before the sound signal starts.

Panic Mode will automatically shut down after 30 sec.

> Note: To stop Panic Mode before the end of its delay, press the LOCK or UNLOCK button until the sound signal stops.

Quick Lockout™

(Also called Secure Panic.) For fast protection in emergency situations, the system will LOCK all doors when you press the brake pedal while you hear the sound signal. (Quick Lockout is only available when Panic Mode has been set off.)

Cold Weather Mode

When Cold Weather Mode is active, the engine starts every 2 hours and runs for 4 minutes (or for 9 or 20 minutes with diesel engines). The System must be in Ready Mode in order to enter Cold Weather Mode. Cold Weather Mode automatically ends after 24 hours.

To enter Cold Weather Mode:

- Press and hold the STOP button for 3 seconds until the parking lights flash three times.

To exit Cold Weather Mode, do any one of the following actions:

- Open the hood.
- Start the engine by remote.
- Turn the ignition key to the IGNITION ON (RUN) position.
- Press the brake pedal.
- Press and hold the STOP button for 3 sec. (the parking lights will flash once).

When the vehicle exits Cold Weather Mode, the Parking Lights will flash once.

If Safe Start is enabled, you can activate Cold Weather Mode by

- Pressing and releasing the START button, then
- Pressing and holding the STOP button until the Parking Lights flash 3 times

Advanced Features: Installation-programmable Options

The unit was designed with flexibility and OEM integration in mind. With its programmable options, this unit can single-handedly control nearly any electrical system in your vehicle.

> Caution: The programming of your system should be left to a professional. Changing any one of the settings may affect the operation of your Remote Car Starter.

The installation-programmable options are as follows:

- Remote Door Locks
- Priority Door Access
- Passive or Active Arming
- Starter Kill / Anti-grind feature
- Horn Chirp Timing
- Safe Start
- Home Valet ™
- Ignition-controlled Door Locks
- Ignition Re-lock
- Secure Lock
- Turbo Mode
- Remote Trunk Release
- Engine Run Time
- Multi-car Operation

Remote Door Locks

If your Remote Car Starter was installed with the Remote Door Locks option, you will have the convenience of remote keyless entry. See section Arming and Disarming the Remote Car Starter, earlier in this Guide, for further instructions on remote door locking and unlocking.

Priority Door Access

If the Remote Door Locks option is installed on your vehicle, this safety feature allows you unlock solely the driver's door with a single press of the UNLOCK button on the transmitter; upon a second press of the UNLOCK button, all the other doors will unlock.

Active or Passive Arming

The Starter Kill can be configured either to Passive Mode (so as to arm automatically) or Active Mode (so as to require user intervention for arming). By default, your Remote Car Starter is configured to Passive Mode. In Passive Mode, the Starter Kill will automatically arm 60 seconds after the last door is closed. The Remote Car Starter will not arm if a door is left open, or if you re-open a door within the 60-second delay.

> Important note: When the Remote Car Starter re-arms automatically, you can disarm the When the Remote Car Starter by simply pressing the UNLOCK button.

The Starter Kill and the Anti-grind Feature

With this added security feature, the system will prevent your vehicle from starting with the ignition key when the Starter Kill is armed. If your Remote Car Starter was installed with the Starter Kill

option, one will not be able to start your vehicle with the key unless the system has been unlocked and disarmed first, or put into Valet Mode.

> Note: If the Starter Kill is installed, your vehicle will benefit from a protection against starter motor damage that could occur after remote-starting the engine should the user, by force of habit, turn the ignition key to the CRANK position.

Flashing LED

The user may decide to turn on or off LED flashing at any moment. To do so, simultaneously press the TRUNK and LOCK buttons on the transmitter:

- Flashing LED ON: the L.E.D. will flash at all times (either under active arming or under passive arming) to indicate that the Starter Kill is active.
  - Active Arming: the LED will flash normally.
  - Passive Arming: the LED will flash at a faster rate during the countdown preceding the activation of the Starter Kill. Once the Remote Car Starter is armed, the LED will flash at a slower rate.
  - In Valet Mode: the LED will remain lit without flashing.
- Flashing LED OFF: the LED will not flash even when the unit is armed (either under active or passive arming). Nevertheless, if the unit enters Valet Mode, the LED will still remain lit without flashing as long as the ignition is off.

Safe Start

If this feature is enabled, the user must press the START button 2 times within 3 seconds to remote-start the vehicle. This will eliminate accidental remote starts, e.g. when children are playing with the transmitter.

If Swap Start Mode is selected, to remote-start your vehicle press LOCK and UNLOCK simultaneously. The AUX 2 output can be activated by pressing the START button.

Ignition-controlled Door Locks

This is an added security feature. If your Remote Car Starter was installed with the Ignition-Controlled Door Locks option, the doors will automatically be locked as soon as the ignition key is turned to the IGNITION ON (RUN) position while the brakes are pressed. When the key is turned to the OFF position, the doors will automatically be unlocked.

Ignition Re-lock

On Remote Car Starters of this series, when Ignition-controlled Door Locks are enabled and the ignition key is in the IGNITION ON (RUN) position, should any door be unlocked and opened, all doors will be relocked next time the brake pedal is pressed.

Secure Lock

Before it can remote-start your vehicle, the Remote Car Starter must first disarm the factory security system. The Secure Lock feature may be required on certain vehicle models with factory security systems that automatically unlock the doors when the security system is disarmed. To keep your vehicle protected when the factory security system is disarmed for a remote start, Secure Lock will relock your doors as soon as the vehicle has started. Once the engine run cycle ends, Secure Lock will rearm your factory security system.

Turbo Mode

When left in Turbo Mode, the unit will keep the engine running for 60 seconds before shutting it down. This is to allow a turbocharger to idle down after the user leaves the vehicle. See Turbo Mode section earlier in this Guide.

Remote Trunk Release

If your system was installed with the Remote Trunk Release option, you can open your trunk by pressing the TRUNK button for 3 seconds on the remote transmitter or by pressing the TRUNK button TWICE within 3 seconds.

Engine Run Time

If you have a gas engine, your Remote Car Starter can be programmed to run the engine for 4, 15, or 25 minutes (15 minutes by default). If you have a diesel engine, the Remote Car Starter can be programmed to run the engine for 9, 20, or 30 minutes (20 minutes default).

Extended Run Time

With the vehicle running under a remote start, pressing and holding the START button for more than 1 second will reset the run time counter to zero and restart the run time cycle from the beginning.
To stop the vehicle, at any moment, simply press the STOP button. This procedure can only be carried out once per remote start.
Example: if your Module is programmed for a run time of 4 minutes and your vehicle has been running for 3 minutes already, pressing the START button will reset the counter to zero and the Engine will run for another cycle (in this case, 4 minutes).

Multi-car Operation

This option allows the owner of two vehicles, both equipped with the same Remote Car Starter model, to control both systems with a single remote control. To control the second vehicle, simultaneously press the TRUNK button and the button of the function you wish to use.

Note: Your remote control must be configured for second car operation by the installer.

- Press TRUNK + LOCK button simultaneously: ....LOCK
- Press TRUNK + UNLOCK: .....UNLOCK
- Press TRUNK + START:.....START
- Press TRUNK + STOP:.....STOP
- Press TRUNK + LOCK + UNLOCK: .....AUX 3 (TRUNK)
- Press TRUNK + STOP for 3 sec:.....Cold Weather Mode

Troubleshooting Poor Transmitting Range

Many factors may affect the operating range of the transmitter. Some of these are:

- The condition of the battery in the transmitter.
- The operating environment (for example: downtown radio-frequency noise, airports, cellular phone towers…)
- Metal: any type of metal will affect operating range. This includes the metal in the car.
- The shape of the vehicle can affect range as well; vans in general have an especially poor range.
- The shape of the roof and A-pillars brings about considerable radio-frequency deflection (in this case the signal from the remote control). As a result, the direction in which the vehicle is facing in relation to the remote control can affect the range. Straight on – standing in front of the vehicle – generally gives you the greatest range; the second best performance is from the back. Using the remote control from either side of the vehicle will usually give the lowest range.
- The range will be significantly lower in a crowded parking lot than in open space.
- Always hold the transmitter high, approximately at shoulder height. Holding the transmitter against your chin will also increase your range: your head acts as an antenna.
- The operating range will be somewhat lower on vehicles equipped with an aftermarket or factory alarm.